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	Application No.	Applicant(s)	
Notice of Allowability	10/540,921	MAGE ET AL.	
	Examiner	Art Unit	
	James E. Goodley	2817	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to 6/29/2005.			
2. \boxtimes The allowed claim(s) is/are <u>1-11</u> .			
 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. 			
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal F	Patent Application	
 Notice of References Cited (P10-692) Dotice of Draftperson's Patent Drawing Review (PT0-948) 	6. ☐ Interview Summary	• •	
	Paper No./Mail Da	te	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 6/29/2005 	7. Examiner's Amendo	nent/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	·	ent of Reasons for Allowance	
	9. Other		
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DETAILED ACTION

Allowable Subject Matter

Claims 1-11 are allowed.

The following is an examiner's statement of reasons for allowance:

None of the prior art references of record disclose or fairly suggest:

A microwave oscillator with very high stability, comprising:

a one-piece dielectric resonator... two lateral flanges, and having drillholes, having symmetry of order N, where N is greater than or equal to four... being covered with a superconducting material... and the tuning of the resonator being done by a magnetic field and a phase loop.

Holme et al. (US 5,515,016) discloses in Fig. 1 a dielectric resonator [38] with 8 symmetrical drillholes, tuned by a tuning probe 62. The resonator does not contain two lateral flanges, is not covered in superconducting material, is not used in a cryogenic chamber and is not tuned via a phase loop.

Sato et al. (5,097,238) discloses in Fig. 2 a dielectric resonator in the form of a right-cylinder frustum (not hollowed out at mid-height), with two lateral flanges [2,4] and a central core [3], and is optionally tuned via hole 6 (see summary of the invention).

There is no superconductive material, phase loop, or cryogenic chamber.

Flory (US 5,652,556) discloses in Figs. 3 and 5, a whispering gallery type dielectric resonator [41] tuned by a phase loop [loop through feedback coupler 47 and

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phase circulator 43], connected to amplifier 48 and being placed in a temperature-regulated chamber [Fig. 5].

There is no fair suggestion for combination of any of the references of record to arrive at the claimed invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James E. Goodley whose telephone number is (571)-272-8598. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on (571)272-1769. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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